

Message Text

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ACTION ACDA-10

INFO OCT-01 AF-10 ARA-06 EA-07 EUR-12 NEA-10 IO-13
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AMEMBASSY THE HAGUE
AMEMBASSY ROME
AMEMBASSY STOCKHOLM
AMEMBASSY OTTAWA
AMEMBASSY TOKYO
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USMISSION NATO
ERDA HQ WASHDC
ERDA GERMANTOWN
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E.O. 11652: N/A
TAGS: PARM, CCD
SUBJECT: CCD: FOURTH AND FIFTH MEETINGS OF THIRD ROUND OF AD HOC
SEISMIC EXPERTS GROUP, WEDNESDAY, APRIL 27, 1977

1. FOURTH MEETING OPENED WITH DISCUSSION OF SECTION FOUR
OF THE REPORT, SELECTION OF SEISMOGRAPHIC STATIONS FOR A
GLOBAL NETWORK. CANADIAN EXPERT (BASHAM), CONVENER OF
WORK GROUP FOR THIS SECTION, DISCUSSED CONSIDERATIONS FOR
STATION SELECTION. THIS WAS FOLLOWED BY GENERAL, NON-
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CONTROVERSIAL DISCUSSION OF SUBJECT BY EXPERTS.

2. US EXPERT (FILSON) THEN BEGAN DISCUSSION OF SECTION 8,
ESTIMATED CAPABILITY OF SPECIFIED MONITORING SYSTEM,
BY REVIEWING THE MODEL CALCULATIONS PERFORMED BY US
SINCE LAST ROUND. DISCUSSION CONTINUED ON THROUGH
AFTERNOON MEETING. IT AS GENERAL VIEW OF GROUP THAT

MODEL CALCULATIONS SHOULD BE CARRIED OUT FOR A GREATER VARIATION OF PARAMETERS; FOR EXAMPLE, NUMBER OF SEISMIC STATIONS, VARIATIONS IN NOISE TO SIGNAL RATIO, DIFFERENT TRAVEL-TIME RELATIONS, DIFFERENT TRAVEL-TIME DISTANCE, STANDARD DEVIATIONS, ETC. SOVIET EXPERT (PASSECHNIK) TOOK LINE THAT ESTIMATED DETECTION CAPABILITY AND LOCATION CAPABILITY PRESENTED BY US EXPERT WERE TOO LARGE. HE STATED, FOR EXAMPLE, THAT THEY HAD DETECTED 5 KT EXPLOSION AT NTS WITH A LOCATION ERROR OF 100 SQUARE KILOMETERS AND A TIME ERROR OF 0.7 SEC, USING CORRECTED JEFFREY-BULLEN HODOGRAPH. HE ALSO EXPRESSED VIEW THAT SURFACE WAVE DETECTION CAPABILITY (AS A MEASURE OF AN IDENTIFICATION PARAMETER) WAS TOO HIGH. OTHERS TOOK VIEW THAT IT WAS NOT CORRECT TO REQUIRE FOUR STATION DETECTION OF SURFACE WAVE WHEN USED FOR PURPOSE OF IDENTIFICATION; A SMALLER NUMBER SHOULD DO. US EXPERT, IN RESPONSE, SAID THAT FOUR STATION DETECTION WAS TAKEN AS EXAMPLE AND IT WAS NOT WITHIN PURVIEW OF GROUP TO RECOMMEND STANDARDS FOR IDENTIFICATION PURPOSES. SOVIET EXPERT SAID THAT BECAUSE CONCERN IN VERIFICATION IS WITH "WEAK" EVENTS FROM WHICH SURFACE WAVE SIGNALS WOULD NOT BE OBTAINED, P-WAVE IDENTIFICATION PARAMETERS SHOULD BE CONCENTRATED ON. HOWEVER, NO ONE WAS ABLE TO ADVANCE CONCRETE PROCEDURES FOR DEVELOPING METHOD TO ESTIMATE GLOBAL CAPACITY TO OBTAIN IDENTIFICATION PARAMETERS.

3. US EXPERT SAID HE WOULD, TO BEST OF ABILITY AND WITHIN TIME AVAILABLE, ATTEMPT TO APPLY SUGGESTED CONDITIONS TO MODEL CALCULATIONS BY TIME OF NEXT ROUND. LIMITED OFFICIAL USE

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4. THE CHAIRMAN (ERICSSON) AT ONE POINT MADE REFERENCE TO RELATION OF THESE STUDIES TO OTHER ASPECTS OF STUDY, INCLUDING COST OF POSSIBLE SYSTEM. THIS BROUGHT FORTH FROM SOVIET EXPERT LONG IMPASSIONED STATEMENT, INCLUDING REFERENCE TO VALUES IN SOCIALIST SOCIETY, THAT COST SHOULD NOT BE CONSIDERED BY GROUP. COST, HE SAID, SHOULD HAVE NO BEARING ON THEIR CONSIDERATIONS, ONLY TECHNICAL FACTS. THE CHAIRMAN DEFLECTED FURTHER DISCUSSION OF ISSUES TILL TOMORROW, BUT DID SAY THAT GROUP SHOULD MAKE ESTIMATE OF COSTS OF POSSIBLE SYSTEMS, BUT NOT ANY JUDGEMENT AS TO COST-EFFECTIVENESS.

5. NEXT MEETING, THURSDAY MORNING, APRIL 28. SORENSON

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